

(19) World Intellectual Property Organization
International Bureau



(43) International Publication Date
5 July 2001 (05.07.2001)

PCT

(10) International Publication Number
WO 01/47581 A1

(51) International Patent Classification: A61M 1/36

Rusco (IT). CANINI, Enrico [IT/IT]; Via A. Baraldini 14/A, I-41037 Moritzzuolo, Mirandola (Mo) (IT).

(21) International Application Number: PCT/IB00/01954

(22) International Filing Date:
22 December 2000 (22.12.2000)

(74) Agent: LEJEUNE, Daniel; Hosal Service Brevets, 61, avenue Tony Garnier, F-69007 Lyon (FR).

(25) Filing Language: English

(81) Designated States (national): AU, CA, JP, US.

(26) Publication Language: English

(84) Designated States (regional): European patent (AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, TR).

(30) Priority Data:
TO99A001165 28 December 1999 (28.12.1999) IT

Published:

— With international search report.

(71) Applicant (for all designated States except US): HOSPAL AG [CH/CH]; Dornacherstrasse 8, CH-4008 Basel (CH).

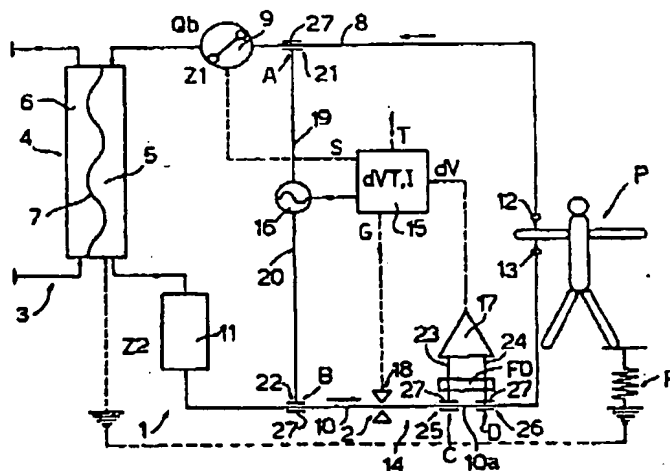
— Before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments.

(72) Inventors; and

(75) Inventors/Applicants (for US only): GIACOMELLI, Sara [IT/IT]; Via Manconi, 8, I-46025 Poggio Rusco (IT). ROSSI, Ivan [IT/IT]; Via Manconi, 8, I-46025 Poggio

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND DEVICE FOR MONITORING THE ACCESS TO THE CARDIOVASCULAR SYSTEM OF A PATIENT



(57) Abstract: A device for monitoring the access to the cardiovascular system of a patient undergoing an extracorporeal treatment of blood in a machine (1) comprising a treatment device (4) and an extracorporeal circuit (2), comprises: a voltage generator (16) for generating a potential difference between a part of the machine (1) and a first point (B) of a venous branch (8) of the extracorporeal circuit (2), connecting the patient to the treatment device (4); a detector (17) for detecting the value (dV) of a quantity that correlates with the electric current along at least one section (10a; 10b; 10c) of the venous branch (10) between the first point (B) and a venous needle (13) fitted at the end of the venous branch (8) and inserted in the vascular system of the patient (P); calculating means (15) for comparing the detected value (dV) with a reference range (I).

WO 01/47581 A1